



commercial fertilizers

Consumption in the United States
Year Ended June 30, 1975

Preliminary Report



SpCr 7 (11-75)

November 3, 1975

CROP REPORTING BOARD

STATISTICAL REPORTING SERVICE • U.S. DEPARTMENT OF AGRICULTURE • WASHINGTON, D.C.

C O N T E N T S

TABLE		PAGE
1.	U. S. CONSUMPTION OF FERTILIZERS AND PLANT NUTRIENTS, 1960-75	2
2.	CONSUMPTION OF FERTILIZER MIXTURES AND DIRECT- APPLICATION MATERIALS	4
3.	DIRECT-APPLICATION NITROGEN MATERIALS CONSUMPTION	5
4.	DIRECT-APPLICATION PHOSPHATE MATERIALS CONSUMPTION.....	7
5.	DIRECT-APPLICATION POTASH AND NATURAL ORGANIC MATERIALS CONSUMPTION	8
6.	PRIMARY PLANT NUTRIENT CONSUMPTION BY KIND OF FERTILIZER	9
7.	MICRONUTRIENTS SOLD FOR FERTILIZER IN THE U. S.	11
8.	CONVERSION FACTORS AND AVERAGE ANALYSES	12

TABLE 1.--U.S. CONSUMPTION OF FERTILIZERS AND PLANT NUTRIENTS
1960-1975

YEAR ENDED JUNE 30	TOTAL CONSUMPTION								
	GROSS TONNAGES				PRIMARY NUTRIENT CONTENT				
	MIXED	PRIMARY	SECONDARY			AVAILABLE			
	FERTI- LIZER	NUTRIENT: MATERIAL	& MICRONUTRIENTS:	TOTAL	N	P ₂ O ₅	K ₂ O	TOTAL	
	1,000 TONS								
1960	15,650	7,850	1,378	24,877	2,738.0	2,572.0	2,153.3	7,463.7	
1961	15,735	8,639	1,194	25,567	3,030.8	2,645.1	2,168.5	7,844.4	
1962	16,205	9,100	1,310	26,615	3,370.0	2,807.0	2,270.5	8,447.5	
1963	17,157	10,229	1,459	28,844	3,929.1	3,072.9	2,503.4	9,505.4	
1964	18,093	11,113	1,475	30,681	4,352.8	3,377.8	2,729.7	10,460.3	
1965	18,559	11,756	1,521	31,836	4,638.5	3,512.2	2,834.5	10,985.2	
1966	19,659	13,412	1,461	34,532	5,326.3	3,897.1	3,221.2	12,444.6	
1967	21,132	14,552	1,397	37,081	6,027.1	4,304.7	3,641.8	13,973.6	
1968	21,294	15,832	1,617	38,743	6,787.6	4,453.3	3,792.6	15,033.5	
1969	21,234	16,380	1,334	38,949	6,957.6	4,665.6	3,891.6	15,514.8	
1970	20,961	17,331	1,297	39,589	7,459.0	4,573.8	4,035.5	16,068.3	
1971	21,513	18,389	1,216	41,118	8,133.6	4,803.4	4,231.4	17,168.4	
1972	21,511	18,385	1,310	41,206	8,022.3	4,863.7	4,326.8	17,212.8	
1973	22,547	19,275	1,466	43,288	8,295.1	5,085.2	4,648.7	18,029.0	
1974	24,067	20,897	2,130	47,094	9,157.2	5,098.6	5,082.6	19,338.4	
1975	20,527	20,070	1,879	42,475	8,593.2	4,494.1	4,414.8	17,502.1	

TOTAL FERTILIZER CONSUMPTION DOWN 10 PERCENT

Fertilizer consumption in the United States and Puerto Rico during the year ended June 30, 1975 is placed at 42.5 million tons, down 10 percent from the 47.1 million tons consumed during the 1973-74 fertilizer year and 2 percent less than the 1972-73 tonnage.

Primary nutrient content (nitrogen, N; phosphate, P_2O_5 ; and potash, K_2O) was 17.5 million tons, down 9 percent from a year earlier. Nitrogen consumption decreased 6 percent to 8.6 million tons; phosphate usage dropped 12 percent to 4.5 million tons; and potash at 4.4 million tons was down 13 percent. The total analysis of plant nutrients increased from 43.01 a year earlier to 43.11 in 1975.

The five leading States in order of total fertilizer consumption and the change in consumption from last year are: California, down 4 percent; Illinois, down 5 percent; Iowa, up 2 percent; Texas, down 24 percent; and Georgia, down 8 percent.

Mixed fertilizer accounted for 48.3 percent of the total fertilizer consumption. Primary nutrient direct-application materials accounted for 47.3 percent of total use, and secondary nutrient and micronutrient materials represented 4.4 percent.

Fertilizer consumption represents all commercial fertilizer tonnages sold or shipped for farm and non-farm use as fertilizer. Materials used in the manufacture of registered mixes or for uses other than fertilizer are excluded.

MIXED FERTILIZER CONSUMPTION DROPPED 15 PERCENT

Consumption of mixed fertilizer containing two or more primary plant nutrients was 20.5 million tons during the 1975 fertilizer year, 15 percent less than the preceding year. The average analysis for mixed fertilizer was 10.07 percent nitrogen, 17.95 percent phosphate, and 12.42 percent potash. The analysis for the preceding year was 10.10-17.75-12.66. The total analysis of plant nutrients in mixed fertilizer decreased from 40.51 percent a year earlier to 40.44 in 1975.

DIRECT-APPLICATION MATERIALS CONSUMPTION DOWN 5 PERCENT

Usage of all direct-application materials decreased 5 percent during the 1974-75 fertilizer year to 21.9 million tons. Primary nutrient materials (N, P_2O_5 , K_2O) accounted for 20.1 million tons of the total compared with 20.9 million tons a year ago. Secondary nutrient and micronutrient materials decreased from 2.1 million tons in 1974 to 1.9 million tons in 1975.

Nitrogen materials (excluding organics) used for direct-application decreased 2 percent to 14.2 million tons. Phosphate materials totaled 2.2 million tons, 5 percent less than the previous year, and all potash materials at 3.2 million tons were down 8 percent from last year. Tonnages of natural organics dropped 19 percent to 0.4 million tons.

MICRONUTRIENTS SOLD FOR FERTILIZER

Sales of selected micronutrients for use in fertilizer were obtained from known primary producers. These tonnages presented in the elemental form in Table 7 indicate increased tonnages for iron and molybdenum, and a decrease for copper, manganese and zinc.

DATA SOURCES

This report, compiled by the Crop Reporting Board of the Statistical Reporting Service, is based on fertilizer tonnage reports prepared by State Fertilizer Control Officials and the voluntary response of more than 1,500 fertilizer manufacturers, blenders, and sales outlets.

TABLE 2.--CONSUMPTION OF FERTILIZER MIXTURES AND DIRECT-APPLICATION MATERIALS,
YEARS ENDED JUNE 30, 1974 AND 1975 1/

STATE	MIXTURES		DIRECT-APPLICATION MATERIALS 2/				TOTAL		1975 AS PERCENT OF 1974
			PRIMARY NUTRIENT		SECONDARY AND MICRO- NUTRIENT		1974	1975	
	1974	1975	1974	1975	1974	1975			
T O N S									
ALA	788,002	599,833	348,976	331,136	719	2,770	1,137,697	933,739	82
ALAS	1,925	1,636	1,992	2,007	0	0	3,917	3,663	94
ARIZ	61,569	45,865	283,809	249,459	26,455	26,847	371,833	322,171	87
ARK	438,194	292,865	306,497	284,100	344	998	745,035	577,903	78
CALIF	683,582	669,374	1,862,851	1,875,143	1,668,510	1,483,125	4,214,943	4,027,642	96
COLO	81,259	92,764	271,631	290,063	9,781	8,145	382,591	350,972	92
CONN	51,912	41,560	18,378	15,965	180	255	70,470	57,780	82
DEL	84,960	84,821	39,520	41,913	311	386	124,791	127,040	102
D C	5,288	5,765	573	613	1	5	5,862	6,383	109
FLA	1,630,892	1,384,496	279,265	272,360	10,289	18,715	1,920,446	1,675,571	87
GA	1,462,276	1,286,469	636,548	613,602	111,726	122,599	2,210,560	2,022,670	92
HAW	104,413	106,713	98,155	70,904	3,152	3,007	185,720	180,704	109
IDAH	86,077	70,760	480,508	439,264	17,154	18,632	583,739	528,656	105
ILL	1,413,392	1,196,094	2,108,802	2,183,833	579	154	3,582,773	3,360,081	95
IND	1,288,582	1,023,880	981,805	857,109	881	514	2,271,268	1,881,503	83
IOWA	1,086,935	1,090,291	1,843,193	1,888,975	9,823	7,703	2,939,951	2,986,969	102
KANS	469,162	430,118	1,060,025	1,024,586	2,537	9,483	1,531,724	1,464,107	96
KY	605,857	566,200	342,366	324,741	586	378	948,809	891,319	94
LA	453,287	342,987	278,324	230,066	15	78	731,626	573,131	78
MAINE	136,284	112,436	10,183	10,579	352	1,974	146,819	124,989	85
MD	311,270	327,700	89,297	100,898	58	317	480,725	428,915	107
MASS	61,540	51,890	15,810	15,150	23	26	77,373	67,066	87
MICH	682,036	530,248	326,221	314,212	7,743	4,676	1,016,000	849,136	84
MINN	747,813	756,789	1,045,363	1,158,271	7,163	11,726	1,880,339	1,926,786	107
MISS	480,392	369,048	485,277	393,338	31	437	965,700	762,823	79
MO	1,222,329	972,111	398,808	369,768	239	188	1,621,076	1,342,047	83
MONT	100,965	63,975	126,847	111,034	2,062	3,984	229,874	178,973	78
NEBR	355,532	277,089	1,127,349	943,755	10,978	6,486	1,493,859	1,227,330	82
NEV	8,083	6,536	12,281	11,663	4,581	3,005	84,945	21,284	85
N H	17,888	15,133	3,239	4,152	5	5	81,132	19,290	91
N J	179,964	160,397	34,509	42,539	2,654	3,274	217,127	206,210	95
N MEX	42,984	23,793	72,735	60,806	341	139	116,060	84,698	73
N Y	472,907	425,616	175,784	166,760	874	955	649,565	593,331	91
N C	1,425,146	1,314,081	484,913	510,456	142,146	57,729	2,052,205	1,882,266	92
N DAN	257,861	249,080	220,364	239,773	186	120	478,351	488,943	102
OHIO	1,126,188	1,061,615	690,910	673,697	1,111	1,466	1,818,209	1,736,778	96
OMLA	348,695	245,403	423,004	405,770	54	1,163	771,753	652,336	85
ORE	53,775	55,217	381,194	348,777	18,227	15,878	453,206	419,872	93
PA	575,751	477,230	136,111	160,094	4,191	4,714	716,053	622,038	87
R I	21,423	11,293	5,857	3,337	1	2	27,281	14,632	54
S C	703,701	560,981	255,214	233,716	6,028	4,083	965,043	798,780	83
S DAN	166,291	134,949	228,283	179,901	623	916	395,297	315,766	80
TENN	524,490	420,399	291,286	271,043	274	180	816,050	691,622	85
TEX	1,735,752	1,241,728	1,176,709	972,486	552	838	2,913,013	2,215,052	76
UTAH	39,881	31,904	81,181	69,008	211	372	181,273	101,284	84
VT	54,524	45,255	9,954	11,387	379	314	84,857	56,956	88
VA	682,991	552,671	163,663	190,382	36,394	28,672	883,048	771,725	96
WASH	180,637	152,798	577,263	520,150	16,773	18,994	774,673	691,942	89
W VA	54,039	33,767	22,949	20,298	16	279	77,004	54,304	71
WIS	427,394	380,503	610,399	564,710	2,236	1,969	1,040,029	947,182	91
WYD	18,785	21,344	61,941	59,922	179	164	80,905	81,430	101
P R	132,481	111,335	28,916	16,282	20	5	181,417	127,622	79
TOTAL	24,067,356	20,526,755	20,897,032	20,069,913	2,129,628	1,878,744	47,094,016	42,475,412	90

1/ EXCLUDES LIMING MATERIALS. 2/ EXCLUDES MATERIALS USED IN COMMERCIAL MIXTURES.

TABLE 3.--DIRECT-APPLICATION NITROGEN MATERIALS CONSUMPTION,
YEARS ENDED JUNE 30, 1974 AND 1975

STATE	AMMONIA				AMMONIUM			
	ANHYDROUS		AQUA		NITRATE		SULFATE	
	1974	1975	1974	1975	1974	1975	1974	1975
	TONS							
ALA	18,527	17,031	0	0	192,005	172,537	2,309	1,689
ALAS	0	0	0	0	587	220	50	35
ARIZ	61,122	68,243	19,535	14,011	12,786	9,274	9,660	7,582
ARK	16,073	9,989	0	24	87,085	83,988	7,950	6,542
CALIF	190,659	208,870	412,450	382,183	48,516	57,828	349,520	321,211
COLO	73,067	69,198	558	775	82,851	52,286	16,003	26,740
CONN	62	0	0	0	247	1,940	18	0
DEL	1,797	1,715	0	0	3,421	3,606	506	912
D C	1	1	0	0	108	75	0	5
FLA	6,411	8,128	2	23	85,527	44,645	5,656	5,527
GA	43,713	43,734	67	0	183,749	160,056	7,427	4,095
HAW	0	0	13,686	17,746	0	0	1,735	1,147
IDAH0	45,561	43,212	6,372	12,595	60,338	62,856	105,907	90,685
ILL	587,459	627,605	28,140	48,866	93,993	77,919	13,957	12,040
IND	188,976	175,612	9,484	6,532	5,637	6,516	11,801	13,276
IOWA	555,295	506,925	29,170	17,251	157,715	129,199	4,274	3,403
KANS	389,409	412,345	173	5,181	217,268	183,005	9,230	5,845
KY	25,857	28,584	123	116	112,601	101,600	3,109	1,574
LA	36,764	33,559	451	111	115,077	80,685	15,530	24,508
MAINE	0	8	0	0	3,473	3,971	282	0
MA	4,030	4,235	0	0	10,547	12,340	1,211	3,861
MASS	0	0	0	0	785	863	69	96
MICH	64,199	56,044	0	0	26,923	17,323	5,135	2,454
MINN	278,820	294,852	8,705	10,776	117,187	125,901	4,907	3,537
MISS	78,163	63,156	6	0	194,543	176,686	11	0
MO	144,316	138,648	917	1,242	122,117	100,358	144	290
MDNT	2,049	5,818	441	260	57,295	47,750	10,768	5,645
NEBR	482,189	405,198	17,368	14,013	136,185	103,864	4,983	4,861
NEV	990	1,134	0	0	1,464	390	1,730	4,285
N H	0	77	0	0	249	542	44	0
N J	241	756	13	8	8,557	7,600	227	1,941
N MEX	23,959	16,128	0	116	4,069	2,920	4,153	2,423
N Y	13,344	15,160	1,009	300	38,977	38,680	1,563	2,477
N C	11,955	12,881	2	375	88,007	67,626	1,883	1,434
N DAM	66,805	70,149	0	0	77,949	83,155	4,303	1,463
NDIO	122,366	100,535	4,316	882	34,682	33,129	23,890	18,672
OKLA	85,152	86,850	0	0	157,834	131,499	10,239	7,488
DRE	13,110	14,273	32,727	26,594	23,464	18,475	78,748	82,676
PA	6,143	3,266	0	0	4,031	11,970	5,440	3,676
R I	0	8	0	0	14	213	0	52
S C	5,288	3,938	960	187	43,764	34,710	1,606	797
S DAM	31,891	26,976	6,355	5,073	110,573	79,446	292	1,289
TENN	10,395	9,458	0	0	111,886	115,860	209	800
TEX	425,880	313,693	11,146	1,210	216,886	192,315	113,161	93,726
UTAH	6,333	5,336	0	0	18,426	23,934	23,728	7,603
VT	45	222	0	0	316	1,250	58	20
VA	214	64	384	23	19,972	23,625	3,163	1,759
WASH	74,289	87,937	188,164	118,953	60,598	56,413	38,989	25,756
W VA	324	135	0	0	5,582	4,548	928	0
WIS	62,117	59,960	6,097	2,960	41,521	31,270	5,951	7,112
WYO	3,407	4,171	0	11	31,995	37,091	413	192
P R	1,321	1,684	4,808	7,409	0	0	14,220	2,307
TOTAL	4,180,088	4,036,983	723,569	687,906	3,169,382	2,813,952	927,090	815,508

TABLE 34--DIRECT-APPLICATION NITROGEN MATERIALS CONSUMPTION,
YEARS ENDED JUNE 30, 1974 AND 1975 --CONTINUED

STATE	NITROGEN SOLUTION		SODIUM NITRATE		UREA		OTHER	
	1974	1975	1974	1975	1974	1975	1974	1975
	TONS							
ALA	73,689	71,120	903	1,117	11,122	8,064	1,117	104
ALAS	0	0	0	0	891	1,565	300	60
ARIZ	57,215	47,365	0	0	38,617	30,588	10,341	6,441
ARK	36,926	30,688	1,583	1,000	120,794	118,756	406	267
CALIF	172,297	213,043	599	2,031	79,168	94,330	49,800	137,562
COLO	37,734	34,706	11	0	2,646	5,255	8,680	4,707
CONN	443	613	109	78	3,160	3,426	326	25
DEL	15,611	16,226	36	14	328	312	211	395
D C	0	35	25	0	20	44	0	10
FLA	69,965	72,985	1,307	1,200	2,853	2,192	16,074	14,876
GA	328,759	349,032	4,157	4,344	1,678	513	7,568	3,820
HAW	59	0	15	7	16,056	14,199	580	568
IDAH	46,616	44,945	0	0	12,531	17,065	11,641	19,507
ILL	355,424	350,903	0	6	56,873	66,204	12,055	33,719
IND	281,512	267,340	0	0	20,924	30,271	56,804	67,150
IOWA	216,803	309,486	39	0	75,420	103,557	5,075	27,635
KANS	275,708	254,348	0	0	54,119	60,956	1,081	93
KY	49,357	60,869	1,287	1,910	9,767	18,620	1,608	876
LA	25,413	15,987	512	66	43,133	21,009	452	1,015
MAINE	0	4	0	11	1,934	2,211	4	759
MO	38,362	43,135	326	210	2,260	4,729	542	415
MASS	611	341	9	19	1,592	1,554	800	579
MICH	57,904	66,597	104	3	26,330	33,378	4,152	1,823
MINN	89,479	99,930	0	0	39,473	66,982	9,416	10,298
MISS	64,048	42,113	2,615	1,171	88,596	55,708	164	0
MO	85,018	81,952	17	199	9,053	16,243	2,942	3,007
MDNT	2,539	1,720	0	0	649	3,305	955	1,208
NEBR	262,560	254,323	0	0	15,165	14,413	15,450	15,226
NEV	2,623	537	0	0	109	214	20	20
N H	373	267	1	1	281	6	363	146
N J	4,245	4,978	908	704	1,817	2,099	2,074	1,370
N MEX	11,614	11,551	0	11	5,603	6,277	2,909	2,115
N Y	35,594	36,797	2,210	1,624	8,366	11,356	3,577	3,927
N C	295,806	303,154	18,746	49,940	2,307	6,931	26,169	19,987
N DAK	29,937	43,197	0	0	3,430	4,024	2,100	578
OHIO	180,431	191,294	113	202	41,095	59,962	9,347	15,905
OKLA	44,006	57,035	0	50	39,494	43,456	1,889	190
ORE	35,969	39,685	0	0	38,961	42,786	19,793	19,323
PA	32,448	31,859	763	530	17,284	20,945	16,209	15,328
R I	0	0	1	5	1,072	416	15	12
S C	158,078	150,928	3,982	10,833	1,595	1,001	17,674	10,139
S DAK	29,379	17,599	0	0	5,402	6,748	7,495	7,789
TENN	51,138	49,678	3,579	3,687	11,495	8,634	16,186	2,577
TEX	172,279	136,881	0	0	67,556	88,521	30,813	24,174
UTAH	266	1,924	0	0	1,857	2,210	259	344
VT	3,236	2,896	100	45	878	1,260	986	975
VA	92,715	110,295	2,529	2,860	2,395	2,231	10,585	18,680
WASH	97,433	79,999	0	0	46,338	39,200	35,505	38,300
W VA	4,272	5,222	923	101	1,166	609	402	61
WIS	74,727	73,054	0	0	11,414	16,678	3,063	3,194
WYO	7,960	8,133	262	0	201	2,077	221	630
P R	0	0	0	0	3,158	1,358	2	0
TOTAL	4,048,551	4,076,464	47,691	83,979	1,028,426	1,164,448	426,200	537,909

TABLE 4.--DIRECT-APPLICATION PHOSPHATE MATERIALS CONSUMPTION.
YEARS ENDED JUNE 30, 1974 AND 1975

STATE	PHOSPHATE ROCK 1/		SUPERPHOSPHATE				AMMONIUM PHOSPHATE 2/		OTHER	
			GRADES 22 PERCENT OR UNDER		GRADES OVER 22 PERCENT					
	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975
TONS										
ALA	100	9,882	12,557	14,868	2,326	1,955	0	7	18,950	19,444
ALAS	0	0	0	0	30	22	75	65	8	3
ARIZ	0	0	1,113	1,538	2,196	1,498	58,776	54,877	1,258	1,258
ARK	2	0	1,173	1,817	7,123	8,788	984	476	14	17
CALIF	504	0	72,362	89,369	14,864	28,582	287,461	142,987	16,314	14,508
COLO	485	60	8,286	65	4,597	17,222	29,429	12,279	3,136	5,661
CONN	7	0	583	180	721	735	1,623	10	167	1,151
DEL	0	0	83	203	1,829	1,171	4,482	4,780	30	36
D C	0	0	15	9	14	3	0	7	10	4
FLA	1,152	3,663	7,953	7,889	915	650	2,670	10	9,343	6,562
GA	564	832	1,910	1,817	1,755	592	581	289	16,247	15,868
HAW	1,113	2,741	0	19	6,733	9,629	3,116	1,956	6,048	8,957
IDAH0	0	0	142	1,243	32,670	31,739	57,097	72,127	9,448	23,096
ILL	2,978	1,895	1,072	3,576	304,484	277,683	496	2,733	731	1,044
IND	0	0	436	376	73,935	50,141	421	1,327	4,651	960
IOWA	1,817	1,017	1,655	4,788	216,272	229,109	3,374	18,022	1,574	4,525
KANS	295	988	1,999	3,413	28,278	25,276	14,888	23,854	3,479	1,859
KY	13,921	639	6,565	153	30,181	32,827	1,044	499	136	227
LA	74	277	888	852	1,987	4,221	1,197	926	5,156	2,843
MAINE	84	84	12	45	239	237	834	0	78	227
MD	365	140	1,255	450	6,932	7,036	0	549	25	43
MASS	37	40	449	321	396	192	612	671	337	168
MICH	168	50	1,142	1,883	12,611	30,810	126	275	227	399
MINN	3,437	2,298	1,454	1,911	87,308	98,945	13,583	14,081	558	150
MISS	411	243	4,989	1,295	10,541	10,928	0	104	54,444	36,045
MO	1,542	933	46	42	8,053	2,735	1,988	838	105	942
MONT	0	0	0	0	9,799	7,268	35,532	38,822	1,049	1,125
NEBR	67	111	5,857	4,037	47,517	38,188	7,539	8,326	16,989	2,288
NEV	0	0	248	18	789	612	3,012	3,048	5	2
N H	10	1	112	112	33	706	15	0	52	120
N J	34	34	752	211	1,130	3,011	2,468	385	393	2,494
N MEX	0	40	4,150	4,388	5,054	5,310	6,773	8,721	23	102
N Y	616	167	2,828	2,950	12,674	9,444	6,250	5,114	1,351	930
N C	1,078	350	7,004	3,166	4,958	8,228	3,187	4,454	12,524	6,107
N DAK	0	434	0	0	14,295	15,080	7,588	9,927	47	95
OHIO	475	1,403	624	0	50,931	50,314	239	169	87	468
OKLA	185	150	3,531	2,452	17,358	26,683	13,567	23,139	22	45
ORE	0	305	11,335	7,939	4,324	3,918	91,621	67,476	2,845	3,573
PA	211	222	6,716	2,199	12,503	8,036	6,778	10,999	3,767	2,604
R I	0	0	7	159	42	32	310	0	36	122
S C	275	101	841	859	1,921	1,407	109	1,162	6,218	5,405
S DAK	2,124	114	108	377	14,475	14,821	2,614	2,695	181	2,840
TENN	0	175	125	833	22,312	23,458	0	400	0	286
TEX	1,578	555	9,714	6,900	13,034	14,844	93,289	80,271	0	1,976
UTAH	0	1,150	2,048	1,925	20,548	16,418	6,933	7,545	0	25
VT	120	120	306	386	813	666	0	0	497	610
VA	174	166	7,715	2,823	5,003	4,808	3,199	5,822	2,553	1,565
WASH	169	114	2,543	1,787	10,704	7,227	50,060	42,278	1,184	2,956
W VA	31	44	177	250	4,075	5,744	0	0	13	15
WIS	1,104	1,912	260	168	47,791	47,649	193	622	89	447
WYD	0	23	50	0	2,461	3,664	10,288	1,230	0	155
P R	0	0	0	0	1,458	1,208	168	40	0	0
TOTAL	37,307	29,473	195,184	180,859	1,183,892	1,191,470	756,309	668,394	202,399	182,352

1/ INCLUDES COLLOIDAL PHOSPHATES.

2/ TOTAL OF 11-48-0, 13-39-0, 16-20-0, 21-53-0 AND 27-14-0 GRADES.

TABLE 3.--DIRECT-APPLICATION POTASH AND NATURAL ORGANIC MATERIALS CONSUMPTION,
YEARS ENDED JUNE 30, 1974 AND 1975

STATE	POTASH MATERIALS				NATURAL ORGANIC	
	CHLORIDE 50-82 PERCENT GRADES		OTHER		1974	1975
	1974	1975	1974	1975		
	TONS					
ALA	10,084	9,053	2,988	5,003	2,389	3,262
ALAS	0	0	50	35	1	2
ARIZ	505	504	296	162	10,389	6,120
ARK	25,713	21,916	580	344	171	288
CALIF	28,605	31,904	5,043	14,735	214,689	136,000
COLOR	10,302	9,199	5,558	3,841	8,288	8,069
CONN	3,783	2,407	163	30	7,006	5,370
DEL	10,539	11,756	1	12	726	775
D C	0	22	4	0	376	398
FLA	18,734	24,851	45,555	47,006	25,148	32,153
GA	14,905	9,827	16,146	13,209	7,262	5,574
HAW	7,473	6,036	1,418	7,652	143	327
IDAH0	6,999	8,728	5,084	11,285	102	81
ILL	719,495	650,768	956	881	10,689	7,991
IND	308,171	243,953	15,785	1,213	3,288	2,442
IOWA	568,902	536,516	1,469	522	4,249	3,022
KANS	61,593	46,989	89	0	2,496	2,356
KY	73,801	64,632	10,433	10,137	2,536	1,478
LA	5,232	11,278	23,293	28,993	3,185	4,136
MAINE	1,734	1,701	0	11	1,409	1,318
MD	21,535	18,596	529	843	1,478	4,216
MASS	1,505	1,313	411	495	8,197	8,498
MICH	109,169	84,984	3,792	1,848	14,239	16,341
MINN	383,087	422,151	4,076	2,954	3,953	4,205
MISS	6,506	5,657	46	0	194	232
MO	17,337	16,016	1,886	1,863	3,037	4,360
MONT	5,584	4,004	0	0	237	109
NEBR	57,189	41,482	38,073	36,601	238	824
NEV	0	1	1	6	1,290	1,396
N H	352	809	32	41	1,322	1,244
N J	4,508	3,495	399	279	6,683	13,174
N MEX	130	108	3,059	1,501	1,231	1,095
N Y	21,307	19,017	8,076	2,654	17,984	16,163
N C	7,481	8,995	17,264	13,577	6,612	3,551
N DAN	13,726	11,527	12	0	172	144
OHIO	203,524	183,610	4,930	3,765	13,860	13,387
OKLA	24,131	19,285	926	921	4,650	6,527
ORE	17,481	12,862	7,383	5,047	3,493	3,845
PA	19,869	21,093	1,027	1,369	2,922	5,898
R I	356	248	0	1	4,004	2,077
S C	5,157	8,049	5,687	3,000	2,239	1,700
S DAN	16,587	13,620	161	0	748	514
TENN	60,478	51,907	1,893	2,443	1,590	850
TEX	8,680	9,318	3,190	4,181	9,643	3,941
UTAH	488	425	0	15	287	154
VT	2,105	2,232	11	17	403	688
VA	8,184	10,404	1,600	2,022	3,338	3,235
WASH	28,596	27,269	6,038	5,256	16,653	14,705
W VA	4,245	2,819	25	35	786	575
WIS	337,033	302,619	4,694	3,564	14,345	13,501
WYO	1,107	2,011	79	60	3,407	474
P R	2,871	1,686	846	751	64	39
TOTAL	3,266,936	2,997,732	250,967	240,160	453,841	368,824

TABLE 6.--PRIMARY PLANT NUTRIENT CONSUMPTION BY KIND OF FERTILIZER
YEARS ENDED JUNE 30, 1974 AND 1975 1/

YEARS ENDING JUNE 30, 1974 AND 1975									
STATE	MIXTURES								1975 AS PERCENT OF 1974 PERCENT
	N		AVAILABLE P ₂ O ₅		K ₂ O		TOTAL		
	1974	1975	1974	1975	1974	1975	1974	1975	
	NUTRIENT TONS								
ALA	65,005	49,166	109,679	85,176	117,586	92,374	292,270	226,737	78
ALAS	230	207	447	301	254	215	932	803	86
ARIZ	8,583	6,008	19,499	15,181	731	321	28,814	21,511	75
ARK	40,806	25,479	77,212	52,130	79,422	53,381	197,441	130,911	66
CALIF	86,601	84,361	94,672	89,027	47,377	45,517	288,650	218,885	96
COLO	12,982	15,121	26,279	33,581	1,913	2,041	41,173	50,742	123
CONN	6,154	4,946	4,649	3,782	4,781	3,824	15,584	12,551	81
DEL	7,238	7,125	11,147	9,500	12,941	13,741	31,326	30,366	97
D C	693	507	443	732	404	617	1,541	1,856	120
FLA	156,444	128,758	99,628	83,070	210,688	179,984	466,959	391,812	84
GA	85,895	72,042	150,293	128,647	230,097	200,689	466,285	401,378	86
HAW	15,143	14,513	14,797	9,924	17,706	19,849	47,647	44,286	93
IDAHO	14,228	11,958	34,722	30,356	386	354	49,336	42,668	86
ILL	138,271	123,198	336,503	289,655	172,653	136,355	647,427	549,007	85
IND	96,513	71,672	286,480	193,513	213,901	174,060	586,974	439,245	77
IOWA	136,373	135,196	298,873	307,462	118,886	109,029	594,132	551,687	100
KANS	64,332	61,937	161,179	155,703	24,766	18,065	290,276	235,705	94
KY	49,219	45,296	96,458	91,724	85,493	75,385	231,171	212,325	92
LA	51,500	38,671	69,218	55,864	62,097	50,419	162,816	141,654	77
MAINE	14,549	12,143	18,225	15,616	18,245	15,853	31,019	43,513	85
MD	26,590	28,510	40,372	42,601	43,250	44,895	110,211	116,006	105
MASS	7,337	6,279	6,256	4,930	6,103	4,878	19,696	16,086	82
MICH	63,388	50,374	141,771	107,110	112,763	83,249	317,922	240,733	76
MINN	90,478	97,626	224,667	239,902	92,026	74,165	487,170	411,693	101
MISS	47,036	37,274	76,713	61,622	77,610	59,786	201,360	158,322	79
MO	162,562	124,430	185,582	149,705	205,961	174,980	554,045	449,115	81
MONT	16,055	10,108	45,332	28,597	928	768	82,314	39,473	63
NEBR	47,931	36,299	115,303	90,331	14,877	11,084	178,111	137,713	77
NEV	1,142	915	1,635	1,490	189	150	2,966	2,556	86
N H	2,177	1,831	2,061	1,876	2,410	1,816	6,648	5,524	83
N J	18,539	17,323	18,438	16,681	18,924	17,162	55,901	51,167	92
N MEA	5,376	3,230	10,627	5,867	2,009	983	18,011	10,000	56
N Y	48,623	45,115	69,651	62,140	64,280	58,309	162,474	165,565	91
N C	85,444	77,531	147,647	134,036	196,698	181,343	429,789	392,910	91
N DAK	39,458	39,599	100,493	94,639	9,310	9,464	149,262	143,702	96
OHIO	98,809	96,607	246,949	225,062	185,118	169,858	590,876	491,528	93
ONLA	47,104	33,866	93,666	69,940	26,528	15,951	167,299	119,757	72
ORE	7,487	7,841	15,237	15,185	4,256	2,927	26,979	25,952	96
PA	53,187	44,860	64,364	66,355	71,156	58,699	288,707	169,894	81
R I	2,069	1,080	2,414	1,197	2,204	1,174	6,667	3,422	51
S C	36,184	28,610	73,456	56,098	169,426	87,513	219,066	172,271	79
S DAM	26,658	21,082	54,598	45,883	6,104	4,453	67,360	71,388	82
TENN	43,314	33,212	65,590	68,525	70,394	55,913	199,298	157,650	79
TEX	249,277	182,534	268,740	196,193	127,369	84,438	645,406	463,165	72
UTAH	7,186	5,998	13,682	6,126	662	925	21,470	13,049	61
VT	6,071	5,250	7,035	5,747	7,787	5,793	20,892	16,790	80
VA	42,830	39,240	64,401	59,136	75,404	72,460	162,635	170,775	94
WASH	27,664	22,920	53,490	49,048	6,778	4,126	67,933	76,093	87
W VA	4,471	2,600	7,622	3,985	6,169	3,816	18,261	10,400	57
WIS	45,164	41,855	117,315	108,063	66,191	53,270	228,670	203,189	89
WYO	2,978	3,436	7,376	9,178	134	43	10,488	12,657	121
P R	18,041	15,142	8,339	6,903	14,695	12,884	41,075	34,848	85
TOTAL	2,431,387	2,067,819	4,271,429	3,684,195	3,047,938	2,548,967	9,750,753	8,300,981	85

1/ THE SUMS OF INDIVIDUAL ITEMS MAY NOT EQUAL TOTALS DUE TO ROUNDING.

TABLE 6.--PRIMARY PLANT NUTRIENT CONSUMPTION BY KIND OF FERTILIZER
YEARS ENDED JUNE 30, 1974 AND 1975 1/--CONTINUED

YEARS ENDED JUNE 30, 1974 AND 1975 1/2--CONTINUED									
STATE	MIXTURES AND DIRECT-APPLICATION MATERIALS								1975 AS PERCENT OF 1974 PERCENT
	N		AVAILABLE P ₂ O ₅		K ₂ O		TOTAL		
	1974	1975	1974	1975	1974	1975	1974	1975	
NUTRIENT TONS									
ALA	174,466	148,255	115,012	91,063	124,100	98,649	413,578	337,967	82
ALAS	943	1,022	486	410	279	253	1,709	1,665	97
ARIZ	114,323	106,686	36,017	29,721	1,483	865	151,803	137,271	90
ARK	152,096	127,245	80,906	56,364	95,007	66,580	328,008	250,189	76
CALIF	545,695	567,581	178,301	163,608	71,209	73,058	795,204	804,248	101
COLO	117,968	110,719	44,594	47,121	10,107	9,084	172,669	166,923	97
CONN	8,583	7,562	5,528	4,611	7,278	5,480	81,389	17,574	82
DEL	15,501	15,701	13,742	11,912	19,370	20,938	48,612	48,551	100
O C	764	593	474	759	407	632	1,644	1,984	121
FLA	212,070	184,420	104,891	87,221	232,051	204,603	549,011	476,325	87
GA	284,642	264,369	153,921	131,029	242,248	209,439	680,811	604,837	89
MAH	26,312	25,401	19,935	16,303	22,845	25,117	69,092	66,901	97
IO&HO	125,245	127,392	68,891	76,948	7,093	11,529	201,229	215,869	107
ILL	729,719	818,292	477,079	418,156	605,771	527,138	1,812,569	1,763,585	97
INO	361,681	325,471	292,442	216,691	403,719	320,845	1,097,842	863,008	82
IOWA	750,638	743,394	396,643	419,708	460,418	430,625	1,687,699	1,593,727	99
KANS	564,479	567,520	178,764	173,714	62,023	45,337	805,267	786,572	98
KY	128,813	129,578	112,433	107,129	134,410	116,858	375,656	353,565	94
LA	151,672	110,320	71,512	58,707	67,708	60,322	290,892	229,429	79
MAINE	16,798	14,717	18,760	15,721	19,325	16,913	54,882	47,351	86
MO	46,618	52,518	43,859	46,125	56,543	56,593	147,021	155,236	106
MASS	8,999	7,863	7,031	5,552	7,246	6,024	23,275	19,439	84
MICH	155,671	137,711	148,357	122,347	179,824	135,064	483,851	395,121	82
MINN	412,780	449,104	267,937	290,257	323,079	328,198	1,083,796	1,067,559	106
MISS	228,472	187,204	87,417	69,801	81,417	63,215	397,306	320,220	81
MO	352,509	304,521	189,886	151,579	216,840	185,087	759,236	641,187	84
MONT	45,961	39,024	60,786	43,920	4,225	3,171	110,972	86,114	78
NEBR	588,856	491,724	146,554	111,546	57,371	43,823	792,780	647,093	82
NEV	4,220	3,693	2,726	2,384	189	157	7,135	6,233	87
N H	2,611	2,238	2,149	2,286	2,652	2,382	7,411	6,905	93
N J	25,164	24,484	20,721	19,881	21,853	19,621	47,738	63,986	94
N MEX	34,566	25,864	15,676	11,139	2,801	1,335	53,043	38,338	72
N Y	91,807	90,338	78,193	68,678	79,015	71,010	249,014	230,026	92
N C	218,489	217,008	156,907	141,366	203,732	188,853	579,128	547,228	94
N OAK	132,702	140,642	110,229	105,361	17,642	16,381	280,573	262,384	101
OMIO	289,453	279,732	270,994	248,467	309,811	282,027	870,258	810,226	93
OKLA	211,198	190,589	105,389	88,604	41,332	27,829	357,918	307,103	86
ORE	98,213	95,291	40,593	35,661	17,730	12,717	156,536	143,669	92
PA	85,043	78,790	96,321	76,625	83,454	71,971	284,819	227,386	86
R I	2,696	1,403	2,587	1,337	2,460	1,353	7,742	4,093	53
S C	104,165	88,971	75,739	58,350	113,624	92,923	293,528	240,244	82
S OAK	104,499	82,014	61,901	55,301	16,096	12,627	182,496	149,942	82
TENN	113,041	100,678	95,912	79,671	108,022	88,484	316,975	268,754	85
TEX	802,251	625,037	297,351	223,591	133,344	91,506	1,232,946	940,094	76
UT&H	25,724	22,918	24,817	16,168	882	1,186	51,422	40,271	78
VT	7,926	7,631	7,676	6,305	9,112	7,152	24,714	21,089	85
VA	82,213	87,548	70,369	84,491	80,839	79,214	233,421	231,253	99
WASH	204,936	181,312	71,065	64,288	26,846	23,319	302,847	268,839	89
W VA	8,732	6,115	9,548	6,657	8,746	5,544	27,026	18,316	68
WIS	140,014	132,964	139,671	130,639	271,321	236,391	551,006	499,995	91
WYO	20,772	23,103	10,843	11,194	981	1,240	32,516	35,537	109
P R	24,500	18,979	9,093	7,480	16,829	14,281	50,423	40,660	81
TOTAL	9,157,208	8,593,248	5,098,626	4,494,069	5,082,605	4,414,763	19,338,439	17,502,080	91

1/ THE SUMS OF INDIVIDUAL ITEMS MAY NOT EQUAL TOTALS DUE TO ROUNDING.

TABLE 7--MICRONUTRIENTS SOLD FOR FERTILIZER IN THE UNITED STATES

REGION OF APPLICATION	QUANTITY OF THE ELEMENT SOLD				
	COPPER	IRON	MANGANESE	ZINC	MOLYBDENUM
	TONS				
	JULY 1, 1973 - JUNE 30, 1974				
NEW ENGLAND					
(ME, N H, VT, MASS, R I, CONN)	10.2	1.7	26.4	78.9	
MID-ATLANTIC					
(N Y, N J, PA, DEL, D C, MD, W VA)	105.7	11.7	449.1	799.6	13.0
SOUTH ATLANTIC					
(VA, N C, S C, GA, FLA)	466.2	431.7	5,068.3	3,668.5	12.0
EAST NORTH CENTRAL					
(OHIO, IND, ILL, MICH, WIS)	36.7	57.1	5,503.6	1,707.2	30.5
WEST NORTH CENTRAL					
(MINN, IOWA, MO, N DAK, S DAK, NEBR, KANS)	41.2	155.8	485.8	4,431.8	.5
EAST SOUTH CENTRAL					
(KY, TENN, ALA, MISS)	42.3	123.0	328.2	1,311.9	12.2
WEST SOUTH CENTRAL					
(ARK, LA, OKLA, TEX)	9.9	79.5	127.4	1,606.6	55.6
MOUNTAIN					
(MONT, IDAHO, WYO, COLO, N MEX, ARIZ, UTAH, NEV)	29.4	184.1	228.4	1,771.1	2.0
PACIFIC					
(WASH, OREG, CALIF)	23.2	190.3	565.5	2,815.7	1.2
ALASKA, HAWAII, PUERTO RICO		0.2	65.4	654.7	
TOTAL	764.8	1,235.1	12,848.1	18,846.0	127.0
	TONS				
	JULY 1, 1974 - JUNE 30, 1975				
NEW ENGLAND					
(ME, N H, VT, MASS, R I, CONN)	8.4	0.2	9.0	82.7	
MID-ATLANTIC					
(N Y, N J, PA, DEL, D C, MD, W VA)	109.6	5.5	526.1	392.3	0.2
SOUTH ATLANTIC					
(VA, N C, S C, FLA)	278.1	260.9	5,053.6	1,093.5	16.8
EAST NORTH CENTRAL					
(OHIO, IND, ILL, MICH, WIS)	26.7	233.3	3,900.8	2,362.2	25.8
WEST NORTH CENTRAL					
(MINN, IOWA, MO, N DAK, S DAK, NEBR, KANS)	37.5	236.1	1,068.3	3,299.4	38.5
EAST SOUTH CENTRAL					
(KY, TENN, ALA, MISS)	9.6	60.1	82.3	768.2	33.3
WEST SOUTH CENTRAL					
(ARK, LA, OKLA, TEX)	3.3	92.0	70.2	1,067.2	26.1
MOUNTAIN					
(MONT, IDAHO, WYO, COLO, N MEX, ARIZ, UTAH, NEV)	26.9	602.1	123.8	981.1	0.1
PACIFIC					
(WASH, OREG, CALIF)	23.8	36.8	462.0	3,007.9	2.3
ALASKA, HAWAII, PUERTO RICO		0.2	0.1	0.2	
TOTAL	524.0	1,527.2	11,296.2	13,864.7	143.1

TABLE 8. -- CONVERSION FACTORS AND AVERAGE ANALYSES

UNIVERSITY OF FLORIDA

CONVERSION FACTORS



TO CONVERT	:	TO	:	MULTIPLY BY
P ₂ O ₅	:	P	:	0.43642
P	:	P ₂ O ₅	:	2.29137
K ₂ O	:	K	:	0.83016
K	:	K ₂ O	:	1.20459

AVERAGE ANALYSES
FOR YEAR ENDED JUNE 30, 1975

ITEM	:	ANALYSIS		
	:	N	P ₂ O ₅	K ₂ O
MIXED FERTILIZERS	:	10.07	17.95	12.42
ANHYDROUS AMMONIA	:	82.0		
AQUA AMMONIA	:	20.1		
AMMONIUM NITRATE	:	33.5		
AMMONIUM SULFATE	:	20.9		
NITROGEN SOLUTIONS	:	28.9		
SODIUM NITRATE	:	16.0		
UREA	:	45.5		
OTHER NITROGEN MATERIALS	:	22.4		
SUPERPHOSPHATE (22% OR UNDER)	:		19.8	
SUPERPHOSPHATE (OVER 22%)	:		45.4	
OTHER PHOSPHATE MATERIALS	:	1.6	26.9	
POTASSIUM CHLORIDE	:			60.1
OTHER POTASH MATERIALS	:	4.1	0.1	23.7
ORGANIC MATERIALS	:	2.7	2.1	2.0